IN THE CLAIMS

Please amend the claims as follows:

- (Currently Amended) A golf ball comprising a center and a cover disposed over the
 center, wherein at least one interpenetrating polymer network is present in at least a portion
 of the golf ball outside the center, wherein the interpenetrating polymer network is formed
 from a material comprising a urethane, an epoxy homopolymer or copolymer, a
 homopolymer or copolymer having backbone or pendant ester groups, a polymide or
 copolymer including imide groups, a polysilane homopolymer or copolymer, a silicone
 homopolymer or copolymer, a polysiloxane homopolymer or copolymer, or a combination
 thereof.
- (Original) The golf ball of claim 1, wherein the golf ball further comprises at least one intermediate layer disposed between the cover and the center.
- 3. (Original) The golf ball of claim 1, wherein the golf ball comprises a cover material having at least one of a dimple coverage of greater than about 60 percent, a hardness of greater than about 15 Shore A, or a flexural modulus of greater than about 500 psi, and wherein the golf ball has at least one of a compression no greater than about 120 or a coefficient of restitution of greater than about 0.7.
- 4. (Currently Amended) A golf ball comprising a non-vulcanizable, non-aromatic, or non-inomeric interpenetrating polymer network in a portion of the golf ball_wherein the interpenetrating polymer network is formed from a material comprising a urethine, an epoxy homopolymer or copolymer a homopolymer or copolymer having backbone or pendant ester groups, a polyimide or copolymer including imide groups, a polysilane homopolymer or copolymer, a silicone homopolymer or copolymer, a polysilaxane homopolymer or copolymer, an acrylate homopolymer or copolymer, an acrylate homopolymer or copolymer, a homopolymer or copolymer, a homopolymer or copolymer including vinyl acetate groups, a homopolymer or copolymer including a jurethione group, a homopolymer or copolymer including a jurethione group, a homopolymer or copolymer including or a styrenic moiety, or a combination thereof.

-7. (Canceled)

- (Original) A golf ball comprising a semi-IPN in a portion of the golf ball, wherein the semi-IPN is non-ionometic.
- (Original) The golf ball of claim 8, wherein the portion of the golf ball comprises at least one of a center, an intermediate layer disposed about the center, or a cover layer.
- 10. (Original) A golf ball comprising an interpenetrating polymer network having at least two polymeric components, wherein the IPN exhibits a ΔTg between any two of the polymeric components at least about 5% less than the ΔTg between a polymer hlend comprising the same two polymeric components.
- (Original) The golf ball of claim 10, wherein the IPN exhibits a ΔT₂ between any two
 of the polymeric components at least about 20% less than the ΔT₃ between a polymer blend
 comprising the same at least two polymeric components.
- 12. (Currently Amended) The golf ball of claim 10, wherein the difference-between the T_x of the IPN exhibits a ΔT_x between any two of the polymeric components at least about 50% less than the ΔT_x between a polymer blend comprising the same two polymeric components and the T_x of a pure polymer made of the same polymeric component present in the IPN in an amount of at least about 50% is at least 3°C greater than or less than the difference between the T_x of the same polymer is a polymer blend comprising the same at least two polymeric components in the same ratio(s) as in the IPN and the T_x of the pure polymer.
- 13. (Currently Amended) The golf ball of claim 10, wherein the difference-between the T_g of the PN exhibits only one observable T_g for any two of the polymeric components and the T_g of a pure polymer made of the same polymeric component present in the PN in an amount of at least about 50% is at least 10°C greater than or less than the difference between the T_g of the same polymer in a polymer blend comprising the same at least two polymeric components in the same ratio(s) as in the PN and the T_g of the pure polymer.

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- (Original) A golf ball comprising an interpenetrating polymer network having at least 14. two polymeric components, at least one of which is a crystallizable polymeric component that exhibits an area under a melting endotherm of at least about 2% less than the area under the
- (Original) The golf ball of claim 14, wherein the crystallizable polymeric component 15. exhibits an area under a melting endotherm of at least about 10% less than the area under the melting endotherm of the homopolymer of the same crystallizable polymeric component.

melting endotherm of a homopolymer of the same crystallizable polymeric component.

- (Original) A golf ball comprising an interpenetrating polymer network having at least 16. two polymeric components, wherein at least one of the polymeric components exhibits an average phase size at least about 10% less than the average phase size of that phase separated component in a blend or mixture of the at least two components.
- (Original) The golf ball of claim 16, wherein the at least one polymeric component 17. exhibits an average phase size at least about 20% less than the average phase size of that phase separated component in a blend or mixture of the at least two components.
- (Original) The golf ball of claim 1, wherein the center comprises a solid sphere or a 18 fluid-filled sphere.
- (Original) The golf ball of claim 2, wherein the at least one intermediate layer 19. comprises a tensioned elastomeric material.
- (Original) The golf ball of claim 2, wherein at least one of the center, the cover, or the 20. intermediate layer has a foamed structure.
- (Original) The golf ball of claim 1, wherein the cover comprises at least an inner 21. cover layer and an outer cover layer.
- (Original) A golf ball comprising a cover layer which comprises an interpenetrating 22. polymer network having at least two polymeric components, wherein the shear resistance

rating of the cover layer is at least 1 rating category lower than that measured for a cover layer comprising a polymer blend or mixture that is substantially free of IPN and that is made of the same components as the IPN.

- (Original) The golf ball of claim 22, wherein the shear resistance rating of the cover 23. layer is at most 2.
- (Original) A process for forming a portion of a golf ball which comprises: 24 providing a golf ball center; and disposing an IPN about the center to provide a portion of the golf ball.
- (Original) The process of claim 24, wherein the IPN is included in an intermediate 25. layer disposed about the center.
- (Original) The process of claim 24, wherein the IPN is included in a cover layer 26. disposed about the center.
- (Original) The process of claim 24, wherein the interpenetrating polymer network is 27 formed from a material comprising a urethane, an epoxy homopolymer or copolymer, a homopolymer or copolymer having backbone or pendant ester groups, a polyimide or copolymer including imide groups, a polysilane homopolymer or copolymer, a silicone homopolymer or copolymer, a polysiloxane homopolymer or copolymer, or a combination thereof.
- (Original) The process of claim 24, wherein the interpenetrating polymer network is 28 formed from a material comprising an acrylate homopolymer or copolymer, an alkyl-acrylate homopolymer or copolymer, a homopolymer or copolymer including vinyl acctate groups, a homopolymer or copolymer including halogen groups, a homopolymer or copolymer including a uretdione group, or a combination thereof.
- (Original) The process of claim 24, wherein the interpenetrating polymer network is 29 formed from a material comprising a homopolymer or copolymer including or made from a conjugated diene or a styrenic moiety.

- 30. (Original) A process for forming a golf ball comprising:
 - providing a golf ball center; providing a golf ball cover layer disposed over the center; and optionally providing at least one intermediate layer disposed between the center and the cover layer, wherein at least a portion of the golf ball comprises an interpenetrating polymer network that is non-vulcanizable, non-aromatic, or non-ionomeric.
- 31. (Original) The process of claim 30, wherein the interpenetrating polymer network is formed from a material comprising a urethane, an epoxy homopolymer or copolymer, a homopolymer or copolymer having backbone or pendant ester groups, a polymide or copolymer including imide groups, a polysilane homopolymer or copolymer, a silicone homopolymer or copolymer, a polysiloxane homopolymer or copolymer, or a combination thereof.
- 32. (Original) The process of claim 30, wherein the interpeneurating polymer network is formed from a material comprising an aerylate homopolymer or copolymer, an alkyl-aerylate homopolymer or copolymer, a homopolymer or copolymer including vinyl acctate groups, a homopolymer or copolymer including halogen groups, a homopolymer or copolymer including a uretdione group, or a combination thereof.
- (Original) The process of claim 30, wherein the interpeneurating polymer network is formed from a material comprising a homopolymer or copolymer including or made from a conjugated diene or a styrenic moiety.
- 34. 38. (Canceled)

Please add the following new claims:

 (New) A golf ball comprising a core, and intermediate layer, and a cover, wherein the intermediate layer comprises an interpenetrating polymer network.

- (New) The golf ball of claim 39, wherein the interpenetrating polymer network is 40. formed from a material comprising a urethane, an epoxy homopolymer or copolymer, a homopolymer or copolymer having backbone or pendant ester groups, a polyimide or copolymer including imide groups, a polysilane homopolymer or copolymer, a silicone homopolymer or copolymer, a polysiloxane homopolymer or copolymer, or a combination thereof.
- (New) The golf ball of claim 39, wherein the interpenetrating polymer network is 41. formed from a material comprising an acrylate homopolymer or copolymer, an alkyl-acrylate homopolymer or copolymer, a homopolymer or copolymer including vinyl acetate groups, a homopolymer or copolymer including halogen groups, a homopolymer or copolymer including a uretdione group, or a combination thereof.
- (New) The golf ball of claim 39, wherein the interpenetrating polymer network is 42. formed from a material comprising a homopolymer or copolymer including or made from a conjugated diene or a styrenic moiety.